Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) Substantially A substantially flat rotating field antenna comprising:

 _______ a central loop-and-coplanar-eccentric loops, antenna wherein, the central loop ereating being structured to create a magnetic field essentially perpendicular to the antenna, the antenna comprises antenna; and

 ______ four adjacent coplanar eccentric loops, supplied in such a way as the eccentric loops being structured and supplied to create a rotating field predominantly in a plane parallel to the a plane of the antenna, the eccentric loops being spaced apart from each other and being spaced from a center of the central loop, and the a centercentres of gravity of theof each eccentric loops being arranged substantially on athe periphery of the central loop.
- 2. (Currently Amended) <u>Antenna The antenna according to claim 1</u>, wherein the eccentric loops are associated in pairs of non-adjacent loops so as to generate electromagnetic fields of opposite phases in <u>said pairthe pairs</u>.
- 3. (Currently Amended) Antenna The antenna according to claim 2, wherein the two eccentric loops of a pair are connected in such a way that a same current is flowing through them in opposite trigonometric directions.
- 4. (Currently Amended) Antenna according to claim 1, wherein the four-eccentric loops are arranged symmetrically with respect to the eentre center of the central loop.
- 5. (Currently Amended) Antenna The antenna according to claim 1, wherein the central loop is substantially rectangular.

- 6. (Currently Amended) Antenna-The antenna according to claim 1, wherein the eccentric loops are substantially triangular, an apex of each triangle being located in the-a central zone of the antenna.
- 7. (Currently Amended) Antenna according to claim 1, wherein the eccentric loops are substantially rectangular.

8.	(Currently Amended) A radiofrequency Radiofr	equency identification system
comprisingco	omprising:	
	a <u>substantially flat</u> rotating field antenna accord	ing to claim 1, comprising
antenna, the	antenna including:	
	a central loop, the central loop being stru	actured to create a magnetic
field essentially perpendicular to the antenna; and		
	four adjacent coplanar eccentric loops, the	ne eccentric loops being
structured and supplied to create a rotating field predominantly in a plane parallel to a plane		
of the antenn	na, centers of gravity of the eccentric loops being a	rranged substantially on a
periphery of	the central loop; and	
	a radiofrequency generator includingcomprising	first and second outputs
respectively supplying first and second excitation signals alternately respectively to the		
central loop a	and to the eccentric loops.	

- 9. (Currently Amended) <u>The system System-according to claim 8, further</u> comprising phase shift means connected to the second output and supplying phase quadrature signals to the eccentric loops.
- 10. (Currently Amended) The system System according to claim 8, wherein the eccentric loops are associated in pairs, the two eccentric loops of a pair being connected to one another and to common terminals, so that a same current flows through them in opposite trigonometric directions, the system further comprising a power divider connected to the

second output of the generator and supplying phase quadrature signals, on two outputs, respectively applied to the common terminals of each of the two-pairs.

- 11. (Currently Amended) System The system according to claim 8, wherein the radiofrequency generator comprises means able to supply first and second excitation signals at different frequencies.
- 12. (New) The antenna according to claim 1, wherein the eccentric loops are formed of a conductive material.
- 13. (New) The antenna according to claim 2, wherein each pair of non-adjacent loops is formed by a conductive material.
- 14. (New) A substantially flat rotating field antenna comprising:

 a central loop, the central loop being structured to create a magnetic field essentially perpendicular to the antenna; and

two conductors, each conductor forming a pair of non-adjacent coplanar eccentric loops, the pairs being structured and supplied to create a rotating field predominantly in a plane parallel to the plane of the antenna and to generate electromagnetic fields of opposite phases in the pairs, and centers of gravity of each eccentric loop being arranged substantially on a periphery of the central loop.